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an endothelialization membrane carried by the device, for promoting endothelialization across the hollow body structure.

51. (Amended) An embolic occlusion device, for implantation within a tubular structure in the body, comprising:

a2
a support member comprising at least three spokes which are movable from a reduced cross-section to an enlarged cross-section, the spokes movable from an axial orientation when the occluding member is in the reduced cross-section to an inclined orientation when the occluding member is in the enlarged cross-section, and

a porous endothelialization membrane carried by the support.

52. (Amended) An embolic occlusion device as in Claim 51, further comprising at least one hub on the support for holding the spokes.

53. (Amended) An embolic occlusion device as in Claim 51, wherein the support comprises at least eight spokes.

54. (Amended) An embolic occlusion device as in Claim 52, wherein at least one spoke has a first end and a second end, and the first end is attached to the hub.

55. (Amended) An embolic occlusion device as in Claim 51, wherein each spoke comprises a proximal section, a distal section, and a bend in between the proximal and distal sections when the support is in the enlarged cross-section.

56. (Amended) An embolic occlusion device as in Claim 51, wherein the spokes comprise wire.

57. (Amended) An embolic occlusion device as in Claim 51, wherein the spokes are cut from a tube.

58. (Amended) An embolic occlusion device as in Claim 51, further comprising at least one tissue attachment element on the support.

59. (Amended) An embolic occlusion device as in Claim 58, wherein the tissue attachment structure comprises a tissue piercing element.

60. (Amended) An embolic occlusion device as in Claim 59, comprising at least one barb on each spoke.

Please add the following new claims:

a3
61. (New) An occlusion device as in Claim 38, wherein the support comprises a nickel titanium alloy.

62. (New) An occlusion device as in Claim 38, wherein the support comprises stainless steel.

63. (New) An occlusion device as in Claim 38, wherein the membrane comprises ePTFE.

64. (New) An occlusion device as in Claim 38, wherein the membrane comprises Dacron.

65. (New) An occlusion device as in Claim 38, where the membrane comprises nylon.

66. (New) An occlusion device as in Claim 38, wherein the membrane has a pore size of no greater than about 0.04 inches.

67. (New) An occlusion device as in Claim 38, wherein the occlusion device comprises a self expandable structure.

68. (New) An occlusion device as in Claim 38, wherein the occlusion device comprises a self expandable wire structure.

69. (New) An occlusion device as in Claim 67, wherein the self expandable structure comprises wire mesh.

70. (New) An occlusion device as in Claim 67, wherein the self expandable structure comprises braided wire.

71. (New) An occlusion device as in Claim 67, wherein the self expandable structure comprises wire coil.

72. (New) An occlusion device as in Claim 67, wherein the self expandable structure comprises shape memory material.

73. (New) An occlusion device as in Claim 67, wherein the self expandable structure comprises pseudoelastic alloy.

74. (New) An occlusion device as in Claim 67, wherein the self expandable structure comprises nickel titanium alloy.

75. (New) An occlusion device as in Claim 67, wherein the self expandable structure comprises stainless steel.

76. (New) An occlusion device as in Claim 67, wherein the self expandable structure comprises composite material.

77. (New) An embolic occlusion device as in Claim 54, further comprising at least one tissue attachment element on the support.

3
End
78. (New) An embolic occlusion device as in Claim 54, wherein the support comprises a nickel titanium alloy.

79. (New) An embolic occlusion device as in Claim 54, wherein the support comprises stainless steel.

80. (New) An embolic occlusion device as in Claim 54, wherein the membrane comprises ePTFE.

81. (New) An embolic occlusion device as in Claim 54, wherein the membrane comprises Dacron.

82. (New) An embolic occlusion device as in Claim 54, where the membrane comprises nylon.

83. (New) An embolic occlusion device as in Claim 54, wherein the membrane has a pore size of no greater than about 0.04 inches.

84. (New) An embolic occlusion device as in Claim 54, wherein the occlusion device comprises a self expandable structure.

85. (New) An embolic occlusion device as in Claim 84, wherein the occlusion device comprises a self expandable wire structure.

86. (New) An embolic occlusion device as in Claim 84, wherein the self expandable structure comprises wire mesh.

87. (New) An embolic occlusion device as in Claim 84, wherein the self expandable structure comprises braided wire.

88. (New) An embolic occlusion device as in Claim 84, wherein the self expandable structure comprises wire coil.

89. (New) An embolic occlusion device as in Claim 84, wherein the self expandable structure comprises shape memory material.

90. (New) An embolic occlusion device as in Claim 84, wherein the self expandable structure comprises pseudoelastic alloy.

91. (New) An embolic occlusion device as in Claim 84, wherein the self expandable structure comprises nickel titanium alloy.

92. (New) An embolic occlusion device as in Claim 84, wherein the self expandable structure comprises stainless steel.

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93. (New) An embolic occlusion device as in Claim 84, wherein the self expandable structure comprises composite material.

94. (New) An embolic occlusion device as in Claim 84, wherein the self expandable structure has at least one proximally concave surface and at least one distally concave surface when in an expanded configuration.

95. (New) An embolic occlusion device as in Claim 94, wherein the membrane comprises a mesh.

96. (New) An embolic occlusion device as in Claim 95, wherein the mesh comprises polyethylene.

97. (New) An embolic occlusion device as in Claim 96, wherein the mesh has an open surface area within the range of from about 10% to about 90%.

98. (New) An embolic occlusion device as in Claim 96, wherein the mesh has an open surface area within the range of from about 30% to about 60%.

99. (New) An embolic occlusion device as in Claim 94, wherein the self expandable structure comprises a pseudoelastic alloy.

100. (New) An embolic occlusion device as in Claim 94, wherein the self expandable structure comprises a Nickel Titanium alloy.

REMARKS

With this amendment, Claims 38 and 51 through 60 are amended. Claim 46 has been cancelled. New Claims 61 through 100 have been added. Claims 38-45 and 51-100 are thus presented for Examination.

The specific changes to the amended claims are shown on a separate set of pages attached hereto and entitled VERSION WITH MARKINGS TO SHOW CHANGES MADE, which follows the signature page of this Amendment. On this set of pages, the insertions are underlined while the ~~deletions are stricken through~~.

Rejections Under 35 U.S.C. § 102

The Examiner has rejected Claims 38-45 and 51-60 under 35 U.S.C. § 102(b) as anticipated by U.S. Patent No. 5,234,458 to Metais. The Examiner has rejected Claims 38-40, 44-46, 51, 52, 54 and 58-60 under 35 U.S.C. § 102(b) as anticipated by U.S. Patent No.